

In the Claims:

1. (currently amended) ~~Polymer A~~ polymer composition which can be produced by polymerisation of

- a) 1 to 50%-wt of polar (meth)acrylates with Tserevitinov hydrogen, said polymer(meth)acrylates being selected from the group comprising consisting of 2-hydroxyethyl (meth)acrylate, 3-hydroxypropyl (meth)acrylate, 4-hydroxybutyl (meth)acrylate, PEG (meth)acrylates, PPG (meth)acrylates, 2-aminoethyl (meth)acrylate, 3-aminopropyl (meth)acrylate, ~~[[and]]~~ 4-aminobutyl (meth)acrylate, ~~as well as~~ reaction products of acrylic or methacrylic acid with bi-, tri- or higher functional alcohols, and as well ethoxylation, propoxylation and butoxylation products of acrylic or methacrylic acid thereof with terminal hydroxy, amino, urethane or thio groups containing at least one active hydrogen~~[[.]]~~;
- b) 50 to 99%-wt<sub>2</sub> of apolar (meth)acrylates~~[[.]]~~;
- c) in the presence of a bi-, tri- or higher functional (meth)acrylate, or of a (poly)functional compound which is reactive to Tserevitinov hydrogens and is selected from the group consisting of mono-, bi- and polyepoxides, mono-, bi- and polyaziridines and melamine and its derivatives, or of a mixture of two or more of the aforementioned compounds, the weight percentages indicated under a) to c) adding up to 100%-wt<sub>2</sub>~~[[.]]~~;
- d) with addition of 0.05 to 5%-wt<sub>2</sub> of an initiator, relative to the sum of the components of a) to c)~~[[.]]~~; and
- e) up to 90%-wt<sub>2</sub> of a liquid, chemically inert medium, relative to the solid matter content of the sum of the components of a) to d).

2. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, ~~characterized in that the~~ wherein said polar (meth)acrylates do not contain carboxyl groups.

3. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, wherein said ~~any one of the preceding claims, characterized in that the~~ polar (meth)acrylates are ~~selected from the group of the~~ hydroxy(meth)acrylates.

4. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, wherein said ~~any one of claims 1 or 2, characterized in that the~~ polar (meth)acrylates

are ~~selected from the group of the~~ amino(meth)acrylates.

5. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, wherein said ~~any one of the preceding claims, characterized in that the~~ apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monovalent alcohols or amines.

6. (currently amended) ~~Polymer~~ The polymer composition according to claim 5, wherein said ~~characterized in that the~~ apolar (meth)acrylates are ~~selected from the group of~~ alkyl (meth)acrylamides.

7. (currently amended) ~~Polymer~~ The polymer composition according to claim 6, wherein said ~~characterized in that the~~ apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monohydric alcohols having 6 to 15 C atoms; ~~preferably 6 to 10 C atoms.~~

8. (currently amended) ~~Polymer~~ The polymer composition according to claim 7, wherein said ~~characterized in that the~~ apolar (meth)acrylates are selected from the group consisting of methyl (meth)acrylate, ethyl (meth)acrylate, butyl (meth)acrylate, hexyl (meth)acrylate, isooctyl (meth)acrylate, 2-ethylhexyl (meth)acrylate, isodecyl (meth)acrylate and isobornyl (meth)acrylate.

9. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, wherein said ~~any one of the preceding claims, characterized in that the~~ di-, tri- or higher functional (meth)acrylates are selected from the group consisting of the conversion products of (meth)acrylic acid with diols, triols or polyols, the analogous vinyl ethers or mixtures thereof, ~~as well as~~ (meth)acrylated polyesters and (meth)acrylated polyurethanes.

10. (currently amended) ~~Polymer~~ The polymer composition according to claim 9, wherein said ~~characterized in that the~~ (meth)acrylated polyesters are conversion products of OH-terminated polyester polyols with (meth)acrylic acid or reaction products of carboxyl groups-containing polyester polyols with hydroxyl groups-containing (meth)acrylates.

11. (currently amended) ~~Polymer~~ The polymer composition according to claim 9, wherein said ~~characterized in that the~~ (meth)acrylated polyurethanes are conversion products of amine- or hydroxyl-terminated (meth)acrylates with diisocyanates or polyisocyanates.

12. (currently amended) ~~Polymer~~ The polymer composition according to claim 1, wherein said ~~any one of claims 1 to 11 characterized in that the~~ polymer composition

contains a further compound which is reactive to Tserevitinov hydrogen and which is selected from the group consisting of mono-, di- and polyisocyanates.

13. (currently amended) ~~Process~~ A process for the production of a polymer composition according to claim 1, said process comprising any one of the preceding claims, characterized in that it comprises a polymerisation reaction which is performed free of solvent, or in a liquid selected from the group consisting of ~~[[in]]~~ water~~[[, or in]]~~ and an organic, inert solvent.

14. (currently amended) Use of the polymer composition according to claim 1 ~~any one of claims 1 to 12~~, as an adhesive or as a sealant.

15. (currently amended) Use of the polymer composition according to claim 1 ~~any one of claims 1 to 12~~ for the production of pressure sensitive adhesive tapes.

16. (new) The polymer composition according to claim 7, wherein said apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monohydric alcohols having 6 to 10 C atoms.